

Company Profile

Smart solutions for residential, office and industrial automation



ELKO EP



We are a traditional, innovative and purely Czech manufacturer of electronic devices and we have been your partner in the field of electro-installations for 26 years. Thanks to the many years of experience and our market activities we are able to say that we have become specialists in the field of modular electronic devices - relays, of which we produce more than 200 types. Our own production, modern tools and devices, research and development center. All these allow us to head towards development of the most sought-after technology: the intelligent electro-installation iNELS system



Editorial

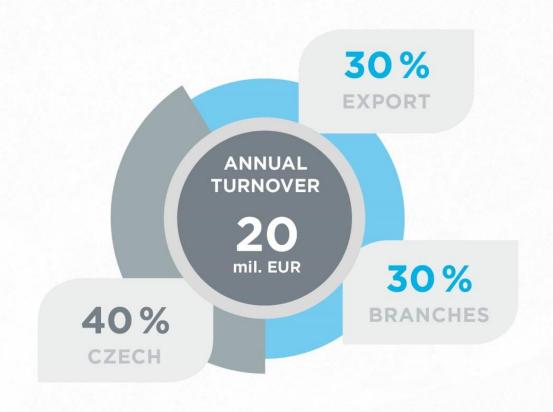


When I was twenty and freshly trained in electronics, and I engineered my first time relay, I had no idea that today I would be controlling it from smartphone apps. It not only became a fact, but a complete given. For a long time now, we have been offering not just "components for automation", but entire solutions, fulfilling customer requirements down to the last detail. What separates us from the competition is not only our flexibility and ready approach to custom modifications, but also the desire to "Always something more!"



Facts & Stats







12 000 000
MANUFACTURED PRODUCTS

330 EMPLOYEES

BRANCHES
OVER THE WORLD

70
EXPORTING
COUNTRIES

10 000 inels installation

Milestones



1993	þ	Jiří Konečný started business in this field, in his garage / First product was switching power units for electrical heating
1997	•	The company ELKO EP Ltd. was founded
2002	þ	First branch office ELKO EP Slovakia, export was started
2005	þ	New production and office spaces in Holešov - Všetuly / New branch offices ELKO EP Poland and ELKO EP Hungary
2006	þ	Intelligent electro-installation iNELS BUS launched to the market
2007	þ	Establishing a branch office ELKO EP Russia
2008	þ	Intelligent electro-installation iNELS RF (wireless control) launched to the market
2009	þ	Branch office ELKO EP Ukraine / Exclusive distributor of sockets and switches LOGUS ⁹⁰
2010	þ	iNELS Multimedia launched to the market / Awards of "Innovation of the Year" for RF Touch
2011	þ	"Gold Amper" award for RF Touch / New warehouse / Establishing ELKO Lighting Ltd
2012	•	ELKO EP - The company of the year
2013	9	20 years on the market / New branch offices ELKO EP Espańa and ELKO EP Germany GmbH
2014	þ	Awards for LARA and Smart RF Box
2015	P	Wireless system iNELS scores – winning the prestigious award Visionary 2015
		New branch office ELKO EP Middle East in Dubai
2016	9	Own test lab opened, award for iNELS Future office
2017	9	Introducing the product line IoT iNELS Air / Presenting iNELS Smart City
2018	9	Establishing a branch office ELKO EP Baltic / iNELS BMS introducing
2019	0	Smart pole deployment as a keystone in Smart City

Our Strengths



WE ARE





DEVELOPERS

In the new R&D center, more than 30 engineers develop new products and extend the functionality of existing products.



PRODUCERS

Modern antistatic spaces, 2x fully automated SMD production lines, 2 shift operations.



SUPPORT

24 hours / 7 days / 360 days we not only provide technical support but also logistics.

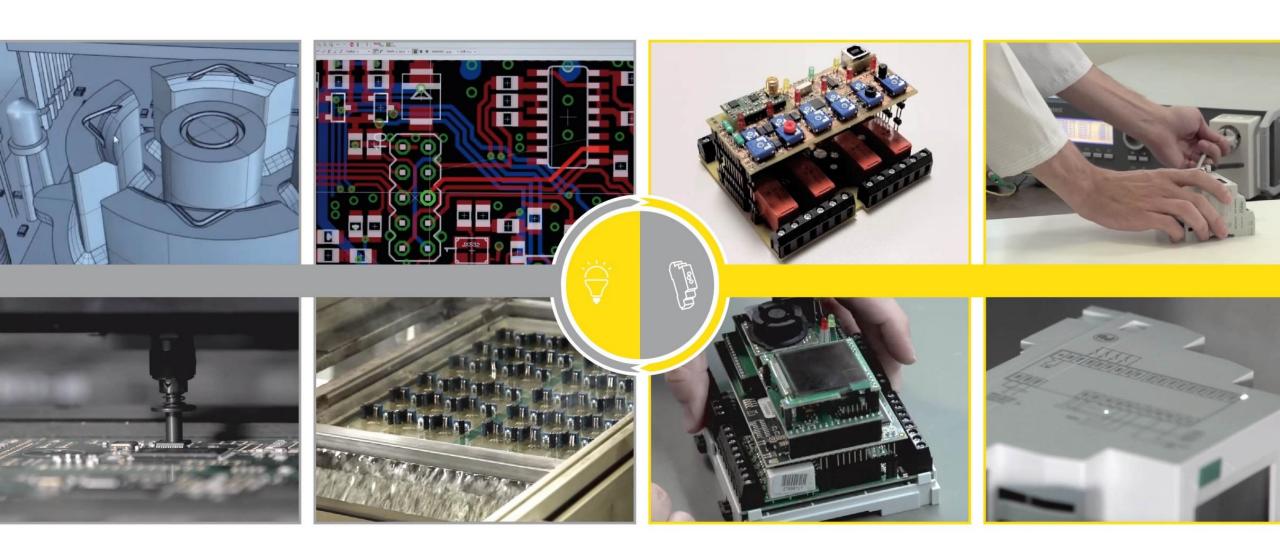


SELLERS

Personal access to more than 70 sales representatives in ELKO EP Holding provides impeccable services and superior products at an affordable price.

We are developers as well as producers



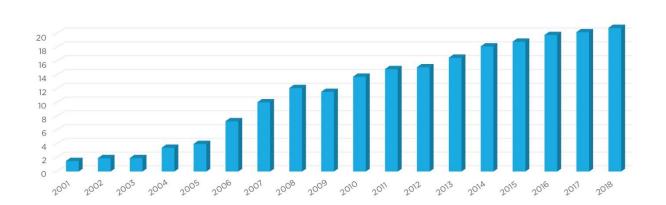


Holding numbers evolution



Turnover

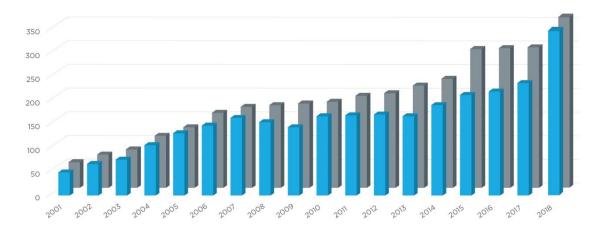
Mil. EUR



Employees

Headquarters

Holding



Awards & Achievements



Corporate awards



Jiří Konečný The Entrepreneur of the year 2004



Company of the year 2012



Visionaries 2015



ELKO EP Company ranked among the 100 best Czech companies



Global exporter 2016



Jiří Konečný Personality of Smart City 2017

Product awards



Golden product for "SMR-T"



ELA awards for "RF Touch"



The honorable mention for "iNELS RF Control"



Golden Amper for "wireless electro-installation"



Czech electro association awards for "LARA"



Awards for "Smart RF Box"

Associations Membership









association of smart living





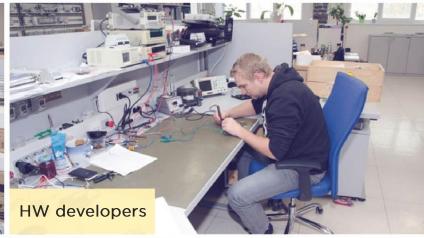


Research & Development

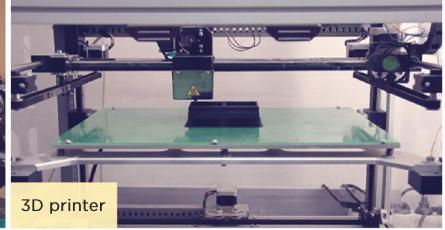














High-level technology in Production



- More than 90 % share formed by SMD components
- 2x fully automated Samsung SMD production lines
- Capacity: 45 000 components/hour
- The minimum chip size is 0105 (0,4 \times 0,2 mm), the maximum size is qfp 55 \times 55mm



High-level technology in Production



LINE 1
Production line for SMD assembling



LINE 2
Production line for SMD assembling



LINE 3
Production line for SMD assembling



AUTOMATICAL OPTICAL INSPECTION





LASER PRINTING

High-Level technology in Products

00000000



Central unit CU3-03M

Terminal for connecting DALI

BUS for connection of up to 32 units

Ethernet switch for LAN peripherals with separation of external masters

3x analogue output for control. Output voltage of 0-10 V/10 mA channel, resolutions of up to 14 bit

> 4x analogue inputs for measuring voltage 0-10 V/current: 0-20 mA

> > Eight layered board with more than 2.7 thousand pads and chip SMD 0402

9x digital input (galvanically isolated) 12-240 AC / DC

> Programmable FPGA LUT 3520 gate array. For fast BUS communication

Processor from Texas Instruments. speed 1 GHz, in case NFBGA 491

> Antenna connector communicating with the iNELS RF system

Supporting MCU for RF iNELS

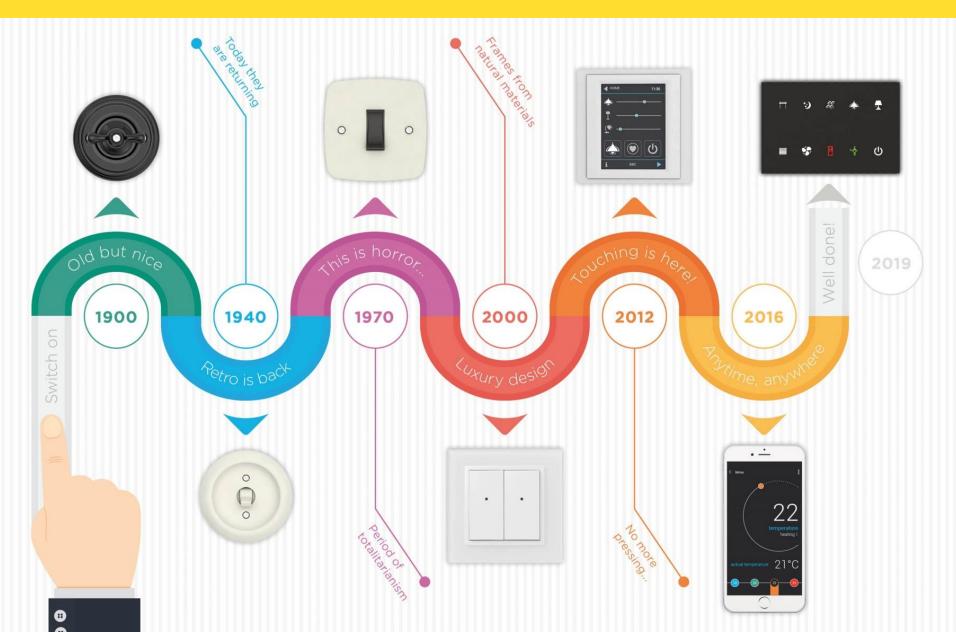
TFT display with a resolution of 240x240 px

3x LAN interface for external masters with a combined speed of up to 100 Mbps

Separate Ethernet PHY peripherals for LAN communication with CU3 Joystick for basic control directly from the panel

Switch evolution





Wide portfolio for universal solutions





Timers/Relays



Protecting / Monitoring relays



iNELS Air - IoT devices



Wireless electro-instalation (RF)



Wired electro-instalation (BUS)



Energy management



Hotel wireless Retrofit (HRESK)



Hospitality Hotel (GRMS)



Building Management System



Lighting control



Multimedia



Switches and sockets

Most famous OEM brands proof our quality

































SIEMENS







iNELS in relation to ELKO EP





Smart System Solution





Apartment

Wireless installation in an existing flats



Villa

Central control of all function on the touch panel, via TV or via mobile



Hotel

Smart management of the hotel and maximum comfort for guests







Smart System Solution





Future office

Efficient, economical and healthy workspaces



Commercial

Technology and energy under perfect control



Smart City

iNELS as a way to effectively manage the city

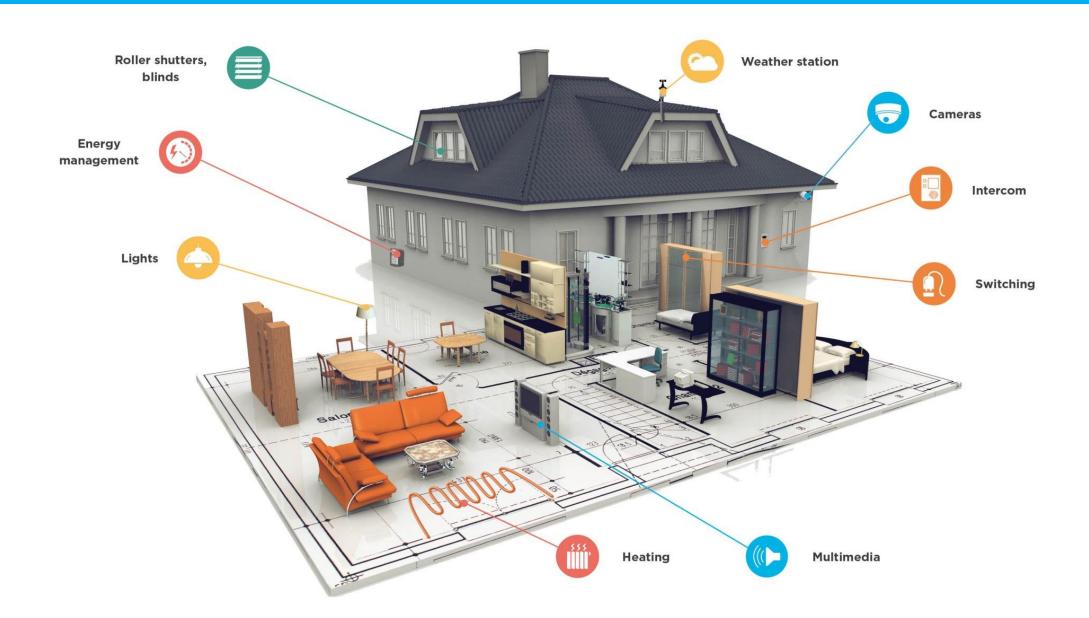






Smart Home - What can I control?





Smart Buildings: BMS

Building Management System

- It is an integral part of any modern building
- It integrates the different technologies into the building into one unit
- Contemporary buildings focus on energy consumption, safety, quality and healthy work environment

management

 iNELS BMS is powered and Full compatible with Honeywell Niagara standards



Hospitality Solution



For new & existing hotel rooms

- iNELS smart system is ready to fulfil its function of security,
 clarity and comfort for the guest
- The card, chips or phone access system provides on-line access to the room
- Motion sensors can then be set directly to the home environment
- The clear glass panels at the bed or the central touch panels at the entrance can control everything the guest may want

Design

 Interconnection at the reception and the hotel's service is a matter of course



Comfort



Savings







Safety



WIRELESS RETROFIT EXISTING hotel room **GUEST ROOM MANAGEMENT SYSTEM BUS INSTALLATION NEW hotel room**

HOTEL ROOM ENERGY SAVING KIT

Smart City

INELS®

- Smart City is tomorrow's place
- It will be at the heart of the revolution and innovative solutions
- We offer not only the products but also the technology that are the basis of every Smart City
- Smart buildings, urban furniture, air condition monitoring or weather monitoring and environmental aspects



Eliminating crime



Permanent surveillance



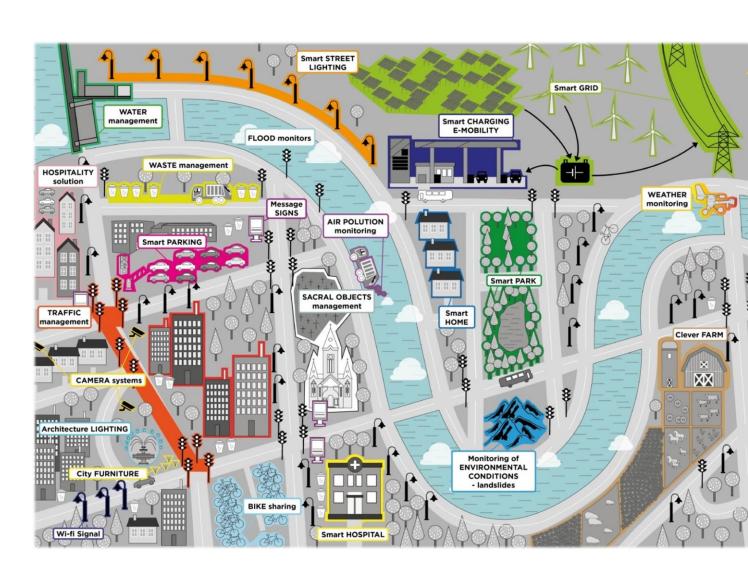
Property protection



Warning on time system



Call for immediate assistance



Smart Pole



Communication hotspot

- The Smart Pole of iNELS is designed for regular street lighting in any "Street" but in the "City" its options make it an ideal technological oasis
- It also brings additional extensions: air quality monitoring, bicycle rechargers, SOS button, intercom, interactive touch panel
- All technologies are integrated into the Smart City Platform



Responsibility



- We help by employing disabled people
- We proudly sponsor charitable organizations
- The charity project "Good Angel"
- We provide benefits to our workers
- Rewarding for successful and creative ideas
- Social security protection
- Support for graduates
- Cooperation with school







Support for graduates



Social security



Environmentally Friendly



- We develop and produce energy saving devices
- iNELS is key to passive and low-energy houses
- Production without environmental impact
- ISO 14001 (environmental management system)
- System of sorted waste collection
- Complies with the RoHS Directive



ECO friendly





Savings



Low-energy



Education Support



- We work with schools and universities
- We support them with laboratory and scientific equipment
- We hold seminars, training sessions, consultations and discussion days



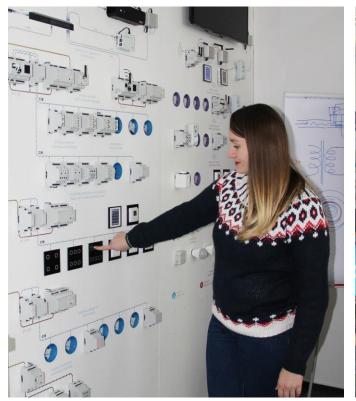




Scientific equipment



Seminars





Process Certifications



ISO 9001



ISO 14001





Approvals



ERC













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Marketing support



Displayboards

Easy to mount & present







Working cases

For training & presentations



Workplaces

For training & presentations



Thanks for your Attention

